

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Canceled)
2. (Previously Presented) A substantially pure nucleic acid comprising a nucleotide sequence encodes the amino acid sequence of SEQ ID NO:6.
- 3-4 (Canceled)
5. (Previously Presented) A substantially pure nucleic acid that encodes a fragment of the polypeptide of SEQ ID NO: 6 of at least 60 amino acids in length.
- 6-9 (Canceled)
10. (Currently Amended) A vector comprising the nucleic acid of any of claims 2 [[, 3]] or 5.
11. (Currently Amended) A cell comprising a recombinant nucleic acid that includes the nucleic acid of any of claims 2 [[, 3]] or 5.
12. (Canceled)

13. (Currently Amended) A method of manufacturing ~~an Helios~~ a polypeptide comprising culturing the cell of claim 11 in a medium to express the ~~Helios~~ polypeptide encoded by the recombinant nucleic acid.

14-20. (Canceled)

21. (Previously Presented) A substantially pure nucleic acid consisting of a nucleotide sequence encoding SEQ ID NO: 6.

22-24 (Canceled)

25. (Previously Presented) A substantially pure nucleic acid comprising the coding sequence of SEQ ID NO:5.

26. (Currently Amended) An oligonucleotide comprising between 30 and 150 contiguous nucleotides of a nucleotide sequence encoding SEQ ID NO: 6.

27. (Previously Presented) The oligonucleotide of claim 26, further comprising a label group.

28. (Previously Presented) The oligonucleotide of claim 29, wherein the label group is selected from the group consisting of: a radioisotope, a fluorescent compound, an enzyme, and an enzyme co-factor.

29. (New) A substantially pure nucleic acid comprising a nucleotide sequence that encodes the amino acid sequence of SEQ ID NO: 2 or SEQ ID NO: 4.

30. (New) The nucleic acid of claim 29, wherein the nucleotide sequence encodes the amino acid sequence of SEQ ID NO: 2.

31. (New) The nucleic acid of claim 29, wherein the nucleotide sequence encodes the amino acid sequence of SEQ ID NO: 4.

32. (New) The nucleic acid of claim 30, wherein the nucleotide sequence comprises the coding sequence of SEQ ID NO: 1.

33. (New) The nucleic acid of claim 31, wherein the nucleotide sequence comprises the coding sequence of SEQ ID NO: 3.

34. (New) A vector comprising the nucleic acid of claim 30.

35. (New) A vector comprising the nucleic acid of claim 31.

36. (New) A cell comprising a recombinant nucleic acid that includes the nucleic acid of claim 30.

37. (New) A cell comprising a recombinant nucleic acid that includes the nucleic acid of claim 31.

38. (New) A method of manufacturing a polypeptide comprising culturing the cell of claim 36 or 37 in a medium to express the polypeptide encoded by the recombinant nucleic acid.

39. (New) A substantially pure nucleic acid that comprises a polypeptide coding sequence that hybridizes to the nucleotide sequence of SEQ ID NO:5 under high stringency conditions (i) or (ii):

(i) hybridization in 480 ml formamide, 240 ml 20x SSC, 10 ml 2 M Tris.Cl, pH 7.6, 10 ml 100x Denhardts solution, 50 ml deionized water, 200 ml 50% dextran sulfate, and 10 ml 10% SDS; and wash in 0.2x SSC and 1% sodium dodecyl sulfate (SDS); or

(ii) hybridization in 1% crystalline bovine serum albumin (BSA), 1 mM EDTA, 0.5 M NaHPO<sub>4</sub>, pH 7.2, and 7% SDS; and wash in 1 mM Na<sub>2</sub>EDTA, 40 mM NaHPO<sub>4</sub>, pH 7.2, and 1% SDS at 65°C.

40. (New) A substantially pure nucleic acid that hybridizes to the nucleotide sequence of SEQ ID NO:5 under high stringency conditions (i) or (ii):

(i) hybridization in 480 ml formamide, 240 ml 20x SSC, 10 ml 2 M Tris.Cl, pH 7.6, 10 ml 100x Denhardts solution, 50 ml deionized water, 200 ml 50% dextran sulfate, and 10 ml 10% SDS; and wash in 0.2x SSC and 1% sodium dodecyl sulfate (SDS); or

(ii) hybridization in 1% crystalline bovine serum albumin (BSA), 1 mM EDTA, 0.5 M NaHPO<sub>4</sub>, pH 7.2, and 7% SDS; and wash in 1 mM Na<sub>2</sub>EDTA, 40 mM NaHPO<sub>4</sub>, pH 7.2, and 1% SDS at 65°C.

41. (New) The nucleic acid of claim 39 or 40 hybridizes to the nucleotide sequence of SEQ ID NO:5 under high stringency conditions that include 80 ml formamide, 240 ml 20x SSC, 10 ml 2 M Tris.Cl, pH 7.6, 10 ml 100x Denhardts solution, 50 ml deionized water, 200 ml 50% dextran sulfate, and 10 ml 10% SDS; and wash in 0.2x SSC and 1% sodium dodecyl sulfate (SDS).

42. (New) The nucleic acid of claim 41 or 40 hybridizes to the nucleotide sequence of SEQ ID NO:5 under high stringency conditions that include 1% crystalline bovine serum

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Serial No. : 09/259,389  
Filed : February 26, 1999  
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Attorney's Docket No.: 10284-095001 / MGH 1286.0

albumin (BSA), 1 mM EDTA, 0.5 M NaHPO<sub>4</sub>, pH 7.2, and 7% SDS; and wash in 1 mM Na<sub>2</sub>EDTA, 40 mM NaHPO<sub>4</sub>, pH 7.2, and 1% SDS at 65°C.